

NIRSIT

Global Partners



“We are in discussion with many other potential partners to expand our partnership network globally”



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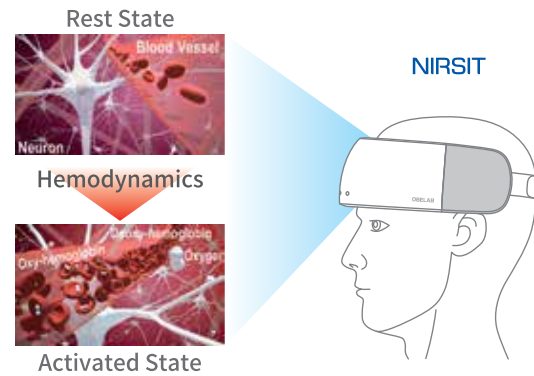
NIRSIT

NIRSIT

fNIRS System

NIRSIT utilizes functional near-infrared spectroscopy to measure the hemodynamic responses of a human brain, namely prefrontal cortex:

- In real-time
- Non invasively
- Wirelessly
- High spatial resolution with over 200 channels (4mm x 4mm by DOT image reconstruction)
- High temporal resolution of 8Hz



Special Features

NIRSIT offers mobile application software, PC software, and analysis tool for:

Monitoring Mode

- Transient Graph & 3D brain mapping



Task Mode

- N-Back, Arithmetic, Stroop, etc



Diffuse Optical Tomography (DOT)

- 3D image reconstruction



Photogrammetry

- Localization of the channels in MNI space



Motion Artifact Removal

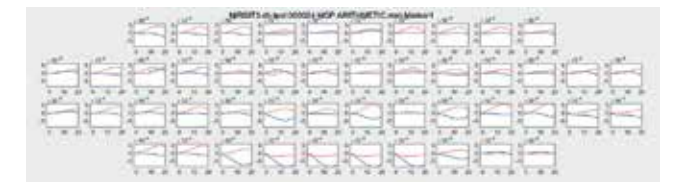
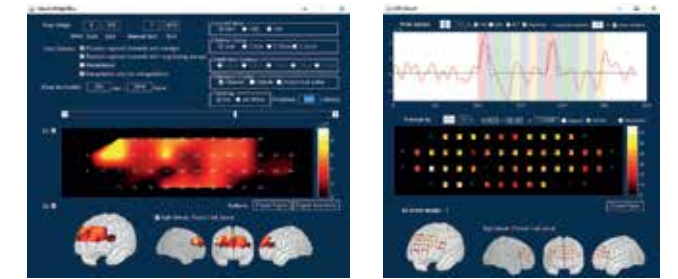
- Enabled by embedded motion sensor

NIRSIT

Analysis

Proprietary analysis tool that is easy to use and includes most of the typically used functions for fNIRS data analysis:

- Signal processing with band pass filter and motion artifact removal algorithm
- 2D and 3D activation maps
- Block averaging and feature extraction
- GLM and SPM analysis compatible with HOMER2 or spm-fnirs



Research Studies with NIRSIT

